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PATENT  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Ronaldson et al.

Attorney Docket No.: UDL1P044C1

Application No.: 10/075,965

Examiner: Behrend, H.

Filed: February 13, 2002

Group: 3641

Title: MONITORING A SAMPLE CONTAINING  
A NEUTRON SOURCE Confirmation No.: 1141

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 22, 2003.

Signed: Laura M. Dean  
Laura M. Dean



**RESPONSE TO RESTRICTION REQUIREMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**IN THE CLAIMS**

Please add new claim 33.

33. (New) A method of monitoring a sample containing a neutron source having a neutron source mass, comprising:

analyzing signals from a plurality of neutron detectors;

determining a single incidence neutron count rate ( $R_1$ ), a double incidence neutron count rate ( $R_2$ ), and a triple incidence neutron count rate ( $R_3$ ) associated with the neutron source based upon the analyzing;

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